

CLAIMS

1. A device for enhancing growth of plants and vegetables, comprising a body adapted to be placed on a surface accessible for sunlight, said body having photo-transforming qualities which convert UV light for plants and vegetables into growth enhancing light so as to promote photosynthesis and therefore to enhance growth of plants and vegetables; and means for delivering the growth-enhancing light to plants or vegetables.

2. A device as defined in claim 1, wherein said means for delivering includes a light conduit extending from said body to an area of a plant or a vegetable.

3. A device as defined in claim 2, wherein said light conduit has a total internal reflection.

4. A device as defined in claim 1; and further comprising a non-transparent casing which partially surrounds said body to protect it from undesirable effects.

5. A device as defined in claim 2, wherein said light conduit is composed of a material which has photo-transforming qualities which convert UV light for plants and vegetables into growth-enhancing light.

6. A device as defined in claim 5, wherein said body and said conduit are composed of the same material.

7. A device as defined in claim 1, wherein said body is formed so that the growth-enhancing light converted by said body provides at least one property selected from the group consisting of

extending a growing season, accelerating a ripening period, increasing a crop yield, increasing a frost protection, increasing growing temperature, reducing crop sunburns, increasing essential vitamins in fruit and vegetables, reducing vulnerability to ultraviolet radiation and therefore a resulting degradation.

8. A device as defined in claim 1, wherein said body includes a photo-transforming additive that enhances photosynthesis by increasing conversion of a UV light spectrum.

9. A device as defined in claim 1, wherein said body has a photo-transforming additive with a particle range from 50Å to 50μm.